Title (en)

Liquid release device for a smoking article

Title (de)

Vorrichtung zum Freisetzen von Flüssigkeit für Rauchartikel

Title (fr)

Dispositif pour la liberation de liquide dans un article à fumer

Publication

EP 1754419 A1 20070221 (EN)

Application

EP 05255044 A 20050815

Priority

EP 05255044 A 20050815

Abstract (en)

A smoking article (110) comprises a rod (12) of smokable material in axial alignment with a liquid release device (118) the rod, the device comprising: a stationary porous element (20) fixed with respect to the rod; a mobile porous element (22) axially aligned with and axially movable relative to the stationary porous element (20); and at least one frangible capsule (34) of liquid retained between the elements, whereby axial movement of the mobile element from a first position in which the capsule is intact toward the stationary element to a second position causes the capsule to rupture and release the liquid into the porous elements. The invention encompasses a liquid release device and a smoking article incorporating the liquid release device.

IPC 8 full level

A24D 3/06 (2006.01); **A24D 3/04** (2006.01)

CPC (source: EP KR US)

A24D 1/002 (2013.01 - KR); **A24D 1/042** (2013.01 - KR); **A24D 3/043** (2013.01 - EP US); **A24D 3/048** (2013.01 - EP US); **A24D 3/061** (2013.01 - EP KR US); **A24D 3/14** (2013.01 - EP KR)

Citation (applicant)

- US 4889144 A 19891226 - TATENO ATSUSHI [JP], et al
- US 5067500 A 19911126 - KERITSIS GUS D [US]
- US 2004261807 A1 20041230 - DUBE MICHAEL FRANCIS [US], et al

Citation (search report)

- [X] US 3513859 A 19700526 - CARTY MARGARET F
- [X] US 3916914 A 19751104 - BROOKS GEOFFREY O, et al
- [XA] US 5133367 A 19920728 - KERITSIS GUS D [US]
- [A] US 4687008 A 19870818 - HOUCK JR WILLIE G [US], et al
- [DA] US 2004261807 A1 20041230 - DUBE MICHAEL FRANCIS [US], et al

Cited by

JP2010528650A; EA013933B1; CN108185518A; US2018035708A1; AU2008263505B2; EA018725B1; RU2745861C2; EP3733001A4; CN103025181A; EP3193644A4; RU2685042C2; GB2490728A; US2016331032A1; US10617149B2; KR20180021689A; RU2666218C1; CN108523220A; RU2703127C2; US8113215B2; US9844232B2; US11632984B2; US10160559B2; RU2674975C1; EP4305974A3; WO2008152526A3; WO2007036814A3; WO2018007561A1; US11406127B2; KR20160009022A; US9788570B2; US10328443B2; US11717024B2; EP2782462B1; WO2021151530A1; WO2016135503A1; WO2009004490A3; WO2012156695A1; WO2013000967A1; WO2016135501A1; AU2012277862B2; EP3097797A1; US2018042295A1; JP2018506289A; RU2665450C1; RU2673625C1; RU2665450C9; EP3552502A1; EP3942947A1; RU2767511C2; EP3991575A1; US8157918B2; US9078470B2; US9521865B2; US10063814B2; US10595557B2; US11700877B2; US9664570B2; US10667551B2; US10729171B2; US11425928B2; US11678694B2; WO2011121326A3; WO2012156703A1; WO2014180893A1; WO2013049169A1; WO2016092284A1; WO2017001352A3; WO2016135502A1; EP3076815B1; EP2723200B1; EP3552502B1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1754419 A1 20070221; CN 101232825 A 20080730; CN 101232825 B 20111116; EA 013725 B1 20100630; EA 200800605 A1 20080630; HK 1121924 A1 20090508; JP 2009504175 A 20090205; JP 5719502 B2 20150520; KR 20080039433 A 20080507; WO 2007060543 A2 20070531; WO 2007060543 A3 20071004

DOCDB simple family (application)

EP 05255044 A 20050815; CN 200680027417 A 20060814; EA 200800605 A 20060814; HK 08113546 A 20081212; IB 2006003837 W 20060814; JP 2008526570 A 20060814; KR 20087004362 A 20080222